

[illegible]

```

000000  PPPPPPP  CCCCCCCC  000000  MM      MM  RRRRRRR  QQQQQQ  SSSSSSSS  TTTTTTTTTT
000000  PPPPPPP  CCCCCCCC  000000  MM      MM  RRRRRRR  QQQQQQ  SSSSSSSS  TTTTTTTTTT
00      00  PP      PP  CC      00      00  MMMM  MMMM  RR      RR  QQ      QQ  SS      TT
00      00  PP      PP  CC      00      00  MMMM  MMMM  RR      RR  QQ      QQ  SS      TT
00      00  PP      PP  CC      00      00  MM  MM  MM  RR      RR  QQ      QQ  SS      TT
00      00  PP      PP  CC      00      00  MM  MM  MM  RR      RR  QQ      QQ  SS      TT
00      00  PPPPPPP  CC      00      00  MM  MM  MM  RRRRRRR  QQ      QQ  SSSSSS  TT
00      00  PPPPPPP  CC      00      00  MM  MM  MM  RRRRRRR  QQ      QQ  SSSSSS  TT
00      00  PP      CC      00      00  MM  MM  RR  RR  QQ  QQ  QQ  SS      TT
00      00  PP      CC      00      00  MM  MM  RR  RR  QQ  QQ  QQ  SS      TT
00      00  PP      CC      00      00  MM  MM  RR  RR  QQ  QQ  QQ  SS      TT
00      00  PP      CC      00      00  MM  MM  RR  RR  QQ  QQ  QQ  SS      TT
00      00  PP      CC      00      00  MM  MM  RR  RR  QQ  QQ  QQ  SS      TT
00      00  PP      CC      00      00  MM  MM  RR  RR  QQ  QQ  QQ  SS      TT
000000  PP      CCCCCCCC  000000  MM  MM  RR  RR  QQQQ  QQ  SSSSSSSS  TT
000000  PP      CCCCCCCC  000000  MM  MM  RR  RR  QQQQ  QQ  SSSSSSSS  TT
                                     ....
                                     ....
                                     ....
                                     ....

LL      IIIIII  SSSSSSSS
LL      IIIIII  SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLL  IIIIII  SSSSSSSS
LLLLLLLLLL  IIIIII  SSSSSSSS

```

```
1 0001 0 MODULE OPC$OPCOMRQST (
2 0002 0   LANGUAGE (BLISS32),
3 0003 0   IDENT = 'V04-000'
4 0004 0 ) =
5 0005 0
6 0006 0 *****
7 0007 0 *
8 0008 0 *  COPYRIGHT (c) 1978, 1980, 1982, 1984 BY
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25 0025 0 *
26 0026 0 *
27 0027 0 *****
28 0028 0
29 0029 0 ++
30 0030 0 FACILITY:
31 0031 0
32 0032 0   OPCOM
33 0033 0
34 0034 0 ABSTRACT:
35 0035 0
36 0036 0   This module contains the specialized logic to service
37 0037 0   a particular type of request sent by a user to OPCOM.
38 0038 0
39 0039 0 Environment:
40 0040 0
41 0041 0   VAX/VMS operating system.
42 0042 0
43 0043 0 Author:
44 0044 0
45 0045 0   Steven T. Jeffreys
46 0046 0
47 0047 0 Creation date:
48 0048 0
49 0049 0   March 10, 1981
50 0050 0
51 0051 0 Revision history:
52 0052 0
53 0053 0   V03-002 CWH3001      CW Hobbs      16-Sep-1983
54 0054 0   Use jacket routines for VM calls.
55 0055 0
56 0056 0   V03-001 CWH3001      CW Hobbs      30-Jul-1983
57 0057 0   Various and sundry things to make OPCOM distributed
```


[illegible]

```
100 0099 1 GLOBAL ROUTINE REQUEST_HANDLER (BUFFER_DESC) : NOVALUE =
101 0100 1
102 0101 1 ++
103 0102 1 Functional description:
104 0103 1
105 0104 1 This routine is the handler for all REQUEST messages received by OPCOM.
106 0105 1
107 0106 1
108 0107 1 Input:
109 0108 1
110 0109 1 BUFFER_DESC : The address of a quadword buffer descriptor that
111 0110 1 describes the buffer containing the message.
112 0111 1
113 0112 1 Implicit Input:
114 0113 1
115 0114 1 None.
116 0115 1
117 0116 1 Output:
118 0117 1
119 0118 1 None.
120 0119 1
121 0120 1 Implicit output:
122 0121 1
123 0122 1 Some accounting data will be updated
124 0123 1 to reflect the receipt of the message.
125 0124 1
126 0125 1 Side effects:
127 0126 1
128 0127 1 None.
129 0128 1
130 0129 1 Routine value:
131 0130 1
132 0131 1 None.
133 0132 1 --
134 0133 1
135 0134 2 BEGIN ! Start of REQUEST_HANDLER
136 0135 2
137 0136 2 MAP
138 0137 2
139 0138 2 BUFFER_DESC : $ref_bblock;
140 0139 2
141 0140 2 LOCAL
142 0141 2 MESSAGE_VECTOR : VECTOR [9, LONG], ! Message info
143 0142 2 ON_BUF : VECTOR [64, BYTE], ! Buffer for preposition (" on " node)
144 0143 2 ON_DSC : VECTOR [2, LONG] ! Desc for preposition
145 0144 2 INITIAL (64, ON_BUF),
146 0145 2 RQCB : $ref_bblock, ! RQCB data structure
147 0146 2 OCD : $ref_bblock, ! OCD data structure
148 0147 2 MCB : $ref_bblock, ! MCB data structure
149 0148 2 MSG : $ref_bblock, ! Pointer to user request
150 0149 2 FOUND : LONG, ! Boolean
151 0150 2 SCOPE : LONG, ! Scope of request
152 0151 2 SCOPE_LIMIT : LONG, ! Loop control
153 0152 2 STATUS : LONG;
154 0153 2
155 0154 2 EXTERNAL
156 0155 2 LCL_NODENAME : $bblock; ! Name of local node (DECnet or cluster)
```



```
157 0156 :  
158 0157 :  
159 0158 : Make sure there is enough data in the request.  
160 0159 : IF .BUFFER_DESC [DSC$W_LENGTH] LSS (OPC$K_COMHDRSIZ + OPC$K_REQUEST_MIN_SIZE)  
161 0160 : THEN  
162 0161 : RETURN;  
163 0162 : ! Ignore the request  
164 0163 :  
165 0164 : Do some common sanity checks.  
166 0165 : IF NOT CHECK_REQUEST (.BUFFER_DESC, RQCB)  
167 0166 : THEN  
168 0167 : RETURN;  
169 0168 : MESSAGE_VECTOR [0] = 0; ! Assume no errors  
170 0169 :  
171 0170 : See if the requestor is issuing this request on another's behalf.  
172 0171 : If so, and the requestor does not have the privilege to do so,  
173 0172 : then dismiss the request.  
174 0173 :  
175 0174 : IF .RQCB [RQCB_L_SENDERUIC] NEQ .RQCB [RQCB_L_UIC]  
176 0175 : THEN  
177 0176 : IF (NOT .Sbblock [RQCB [RQCB_L_PRIVMASK1], PRV$V_OPER])  
178 0177 : THEN  
179 0178 : IF NOT ((.Sbblock [RQCB [RQCB_L_SENDERUIC], 2,0,16,0] EQL .Sbblock [RQCB [RQCB_L_UIC], 2,0,16,0]) AN  
180 0179 : (.Sbblock [RQCB [RQCB_L_PRIVMASK1], PRV$V_GROUP]))  
181 0180 : THEN  
182 0181 : BEGIN  
183 0182 : MESSAGE_VECTOR [0] = OPC$_ILLRQST;  
184 0183 : MESSAGE_VECTOR [1] = 0;  
185 0184 : END;  
186 0185 :  
187 0186 : Create a descriptor within the RQCB to point to the request text.  
188 0187 :  
189 0188 : MSG = .BUFFER_DESC [DSC$A_POINTER] + OPC$K_COMHDRSIZ;  
190 0189 : RQCB [RQCB_L_TEXT_LEN] = .MSG [OPC$W_REQUEST_LENGTH];  
191 0190 : IF (.RQCB [RQCB_L_TEXT_LEN] GTR 0)  
192 0191 : THEN  
193 0192 : BEGIN  
194 0193 : Create a buffer for the request text and copy the text to the buffer.  
195 0194 :  
196 0195 : IF NOT (STATUS = OPC$GET_VM (RQCB [RQCB_L_TEXT_LEN], RQCB [RQCB_L_TEXT_PTR]))  
197 0196 : THEN  
198 0197 : BEGIN  
199 0198 : DEALLOCATE_RQCB (.RQCB);  
200 0199 : RETURN;  
201 0200 : END;  
202 0201 : CH$MOVE (.RQCB [RQCB_L_TEXT_LEN], MSG [OPC$T_REQUEST_TEXT], .RQCB [RQCB_L_TEXT_PTR]);  
203 0202 : END  
204 0203 : ELSE  
205 0204 : BEGIN  
206 0205 :  
207 0206 : There is no request text. Inform the requestor that this is not allowed.  
208 0207 :  
209 0208 : MESSAGE_VECTOR [0] = OPC$_ILLRQST;  
210 0209 : MESSAGE_VECTOR [1] = 0;  
211 0210 : END;  
212 0211 :  
213 0212 :
```

```
214 0213 2 | Find an OCD that can handle this request. The OCD is selected
215 0214 2 | according to the SCOPE and UIC of the requestor. If the SCOPE
216 0215 2 | is unspecified, then look for operator coverage starting in the
217 0216 2 | least privileged scope and continuing to the most privileged.
218 0217 2 | If no OCD is found, then dismiss the request.
219 0218 2 |
220 0219 2 | IF (.RQCB [RQCB_B_SCOPE] EQL OPC$K_UNSPEC)
221 0220 2 | THEN
222 0221 2 |     SCOPE_LIMIT = OPC$K_SYSTEM
223 0222 2 | ELSE
224 0223 2 |     SCOPE_LIMIT = .RQCB [RQCB_B_SCOPE];
225 0224 2 |     FOUND = FALSE;
226 0225 2 |     SCOPE = .RQCB [RQCB_B_SCOPE];
227 0226 2 |     WHILE (.SCOPE GEQ .SCOPE_LIMIT) AND (NOT .FOUND) DO
228 0227 2 |         IF NOT (FOUND = FIND_OCD (.SCOPE, .RQCB [RQCB_L_UIC], OCD))
229 0228 2 |             THEN
230 0229 2 |                 SCOPE = .SCOPE - 1;
231 0230 2 |         IF NOT .FOUND
232 0231 2 |             THEN
233 0232 2 |                 BEGIN
234 0233 2 |                     MESSAGE_VECTOR [0] = OPC$_NOPERATOR;           ! No operator coverage
235 0234 2 |                     MESSAGE_VECTOR [1] = 0;
236 0235 2 |                     END;
237 0236 2 |
238 0237 2 |                 If there is an error message to output,
239 0238 2 |                 do so and dismiss the request.
240 0239 2 |
241 0240 2 |             IF .MESSAGE_VECTOR [0] NEQ 0
242 0241 2 |                 THEN
243 0242 2 |                     BEGIN
244 0243 2 |                         FORMAT MESSAGE (.RQCB, MESSAGE_VECTOR);
245 0244 2 |                         SEND REPLY (.RQCB, MESSAGE_VECTOR);
246 0245 2 |                         DEALLOCATE_RQCB (.RQCB);
247 0246 2 |                         RETURN;
248 0247 2 |                     END;
249 0248 2 |
250 0249 2 |             Set the scope of the request.
251 0250 2 |             Format the request message and send it to all
252 0251 2 |             interested operators on the OCD's operator list.
253 0252 2 |
254 0253 2 |             RQCB [RQCB_L_OCD] = .OCD;           ! Save OCD address
255 0254 2 |             RQCB [RQCB_B_SCOPE] = .OCD [OCD_B_SCOPE];       ! Set request scope
256 0255 2 |             IF .LCL_NODENAME [DSC$W_LENGTH] NEQ 0
257 0256 2 |                 THEN
258 0257 2 |                     BEGIN
259 0258 2 |                         IF NOT (STATUS = $GETMSG (MSGID=OPC$_ON_NODE, MSGLEN=ON_DSC, BUFADR=ON_DSC, FLAGS=1))
260 0259 2 |                             THEN
261 0260 2 |                                 $signal_stop (.STATUS);
262 0261 2 |                             END
263 0262 2 |                     ELSE
264 0263 2 |                         ON DSC [0] = 0;
265 0264 2 |             IF .RQCB [RQCB_W_REPLYMBX] NEQ 0           ! Set the message code
266 0265 2 |                 THEN
267 0266 2 |                     BEGIN
268 0267 2 |                         REQUEST_NUMBER = CLUSUTIL INCR SEQUENCE (.REQUEST_NUMBER); ! Request with reply expected
269 0268 2 |                         RQCB [RQCB_L_RQSTNUM] = .REQUEST_NUMBER; ! Increment the number of request
270 0269 2 |                         MESSAGE_VECTOR [0] = OPC$_USERQST;       ! Set the request number
271 0270 2 |                         MESSAGE_VECTOR [1] = 0;                 ! Set the message code
```



```
271 0270 MESSAGE_VECTOR [1] = 0;           ! Set the message Nargs
272 0271 MESSAGE_VECTOR [2] = .RQCB [RQCB_L_RQSTNUM];       ! Set the request number
273 0272 MESSAGE_VECTOR [3] = .RQCB [RQCB_W_USERNAMELEN];   ! Set the username string length
274 0273 MESSAGE_VECTOR [4] = RQCB [RQCB_T_USERNAME];       ! Set the username string addr
275 0274 MESSAGE_VECTOR [5] = ON_DSC;                       ! The "on" field
276 0275 MESSAGE_VECTOR [6] = .LCL_NODENAME [DSC$W_LENGTH]; ! Length of nodename
277 0276 MESSAGE_VECTOR [7] = .LCL_NODENAME [DSC$A_POINTER]; ! Length of nodename
278 0277 MESSAGE_VECTOR [8] = RQCB [RQCB_L_TEXT_LEN];       ! Set address request descriptor
279 0278 END
280 0279 ELSE
281 0280 BEGIN
282 0281 MESSAGE_VECTOR [0] = OPCS_USERMSG;                 ! Request with no reply expected
283 0282 MESSAGE_VECTOR [1] = 0;                           ! Set message code
284 0283 MESSAGE_VECTOR [2] = .RQCB [RQCB_W_USERNAMELEN];   ! Set number of paramters
285 0284 MESSAGE_VECTOR [3] = RQCB [RQCB_T_USERNAME];       ! Set the username string length
286 0285 MESSAGE_VECTOR [4] = ON_DSC;                       ! Set the username string addr
287 0286 MESSAGE_VECTOR [5] = .LCL_NODENAME [DSC$W_LENGTH]; ! The "on" field
288 0287 MESSAGE_VECTOR [6] = .LCL_NODENAME [DSC$A_POINTER]; ! Length of nodename
289 0288 MESSAGE_VECTOR [7] = RQCB [RQCB_L_TEXT_LEN];       ! Length of nodename
290 0289 END;
291 0290 FORMAT_MESSAGE (.RQCB, MESSAGE_VECTOR);             ! Format the message
292 0291 IF NOTIFY_LISTED_OPERATORS (.RQCB)
293 0292 THEN
294 0293 BEGIN
295 0294
296 0295     At least one operator was notified of the request, so send it off to the cluster.
297 0296     Note that NOTIFY_LISTED_OPERATORS returns true if a remote operator is enabled for the
298 0297     request, even if no operators on the local node were notified.
299 0298
300 0299 CLUSMSG_RQCB_SEND (-1, CLM__REQUEST, .RQCB);          ! Send it everywhere
301 0300
302 0301     If the request expects a reply, then queue the RQCB
303 0302     onto the OCD for future reference. Log the request.
304 0303
305 0304 LOG_MESSAGE (.RQCB);
306 0305 IF .RQCB [RQCB_W_REPLYMBX] NEQ 0
307 0306 THEN
308 0307 BEGIN
309 0308     INSQUE (.RQCB, .OCD [OCD_L_RQSTFLINK]);
310 0309     OCD [OCD_W_RQSTCOUNT] = .OCD [OCD_W_RQSTCOUNT] + 1;
311 0310     $bblock [RQCB [RQCB_L_OPTIONS], OPCS_V_NOBRD] = 0;   ! Clear option bits
312 0311     $bblock [RQCB [RQCB_L_OPTIONS], OPCS_V_NOLOG] = 0;
313 0312     END
314 0313 ELSE
315 0314     DEALLOCATE_RQCB (.RQCB);                             ! Dellocate the RQCB
316 0315 END
317 0316 ELSE
318 0317 BEGIN
319 0318
320 0319     None of the operators on the OCD's operator list were
321 0320     enabled to receive the request. If no reply is expected,
322 0321     just return. If a reply was expected, then cancel the
323 0322     request and log the cancelation.
324 0323
325 0324 IF .RQCB [RQCB_W_REPLYMBX] NEQ 0
326 0325 THEN
327 0326 BEGIN
```



```
.. 328      0327 4      MESSAGE_VECTOR [0] = OPC$_NOPERATOR;
.. 329      0328 4      MESSAGE_VECTOR [1] = 0;
.. 330      0329 4      FORMAT MESSAGE (.RQCB, MESSAGE_VECTOR);
.. 331      0330 4      SEND REPLY (.RQCB);
.. 332      0331 4      LOG MESSAGE (.RQCB);
.. 333      0332 3      END;
.. 334      0333 3      DEALLOCATE_RQCB (.RQCB);
.. 335      0334 2      END;
.. 336      0335 2
.. 337      0336 1 END;
```

! End of REQUEST_HANDLER

```
.TITLE OPC$OPCOMRQST
.IDENT \V04-000\
```

```
.EXTRN LCL NOD, NOD HEAD
.EXTRN GLOBAL STATUS, REQUEST_NUMBER
.EXTRN CHECK_REQUEST, CLUSMSG_CONV_CLM_RQCB
.EXTRN CLUSMSG_RQCB SEND
.EXTRN CLUSUTIC_INCR SEQUENCE
.EXTRN DEALLOCATE_MCB, DEALLOCATE_RQCB
.EXTRN DUMP_LOG_FILE, FIND_OCD
.EXTRN FORMAT_MESSAGE, LOG_MESSAGE
.EXTRN NOTIFY_LISTED_OPERATORS
.EXTRN SEND_REPLY, TRIM_LENGTH
.EXTRN LCL_NODENAME, OPC$GET_VM
.EXTRN SYS$GETMSG, LIB$STOP
```

```
.PSECT $CODE$,NOWRT,2
```

				OFFC 00000		
		5B	0000G	CF	9E	00002
		5A	0000G	CF	9E	00007
		5E	8C	AE	9E	0000C
08		AE	40	8F	9A	00010
0C		AE	10	AE	9E	00015
		52	04	AC	D0	0001A
0042		8F		62	B1	0001E
				01	1E	00023
					04	00025
			4004	8F	BB	00026 1\$:
	0000G	CF		02	FB	0002A
		01		50	E8	0002F
					04	00032
			50	AE	D4	00033 2\$:
		56		6E	D0	00036
		50	38	A6	9E	00039
		57	68	A6	9E	0003D
		67		60	D1	00041
				1B	13	00044
16	32	A6		02	E0	00046
	02	A7	02	A0	B1	0004B
				04	12	00050
		0B	31	A6	E8	00052
	50	AE	0005807C	8F	D0	00056 3\$:
			54	AE	D4	0005E

.ENTRY	REQUEST_HANDLER, Save R2,R3,R4,R5,R6,R7,R8,-;	0099
MOVAB	FORMAT_MESSAGE, R11	
MOVAB	LCL_NODENAME, R10	
MOVAB	-116(SP), SP	
MOVZBL	#64, ON_DSC	0134
MOVAB	ON_BUF, ON_DSC+4	
MOVL	BUFFER_DESC, R2	0159
CMPL	(R2), #66	
BGEQU	1\$	
RET		
PUSHR	#^M<R2,SP>	0165
CALLS	#2, CHECK_REQUEST	
BLBS	R0, 2\$	
RET		
CLRL	MESSAGE_VECTOR	0168
MOVL	RQCB, R6	0174
MOVAB	56(R6), R0	
MOVAB	104(R6), R7	
CMPL	(R0), (R7)	
BEQL	4\$	
BBS	#2, 50(R6), 4\$	0176
CMPL	2(R0), 2(R7)	0178
BNEQ	3\$	
BLBS	49(R6), 4\$	0179
MOVL	#360572, MESSAGE_VECTOR	0182
CLRL	MESSAGE_VECTOR+4	0183

52	04	A2	26	C1	00061	4\$:	ADDL3	#38, 4(R2), MSG	0188	
		58	C6	9E	00066		MOVAB	132(R6), R8	0189	
		68	A2	3C	00068		MOVZWL	26(MSG), (R8)		
			1A	15	0006F		BLEQ	5\$	0190	
			0088	C6	9F	00071	PUSHAB	136(R6)	0196	
				58	DD	00075	PUSHL	R8		
	0000G	CF	02	FB	00077		CALLS	#2, OPC\$GET_VM		
		59	50	DO	0007C		MOVL	R0, STATUS		
		69	59	E9	0007F		BLBC	STATUS, 12\$		
0088	D6	1C	68	28	00082		MOV(C3	(R8), 28(MSG), @136(R6)	0202	
			0B	11	00089		BRB	6\$	0190	
		50	AE	DO	0008B	5\$:	MOVL	#360572, MESSAGE_VECTOR	0209	
			54	AE	D4	00093	CLRL	MESSAGE_VECTOR+4	0210	
		04	53	A6	91	00096	CMPB	83(R6), #4	0219	
				05	12	0009A	BNEQ	7\$		
		53	01	DO	0009C		MOVL	#1, SCOPE_LIMIT	0221	
			04	11	0009F		BRB	8\$		
		53	A6	9A	000A1	7\$:	MOVZBL	83(R6), SCOPE_LIMIT	0223	
			50	D4	000A5	8\$:	CLRL	FOUND	0224	
		52	A6	9A	000A7		MOVZBL	83(R6), SCOPE	0225	
		53	52	D1	000AB	9\$:	CMPL	SCOPE, SCOPE_LIMIT	0226	
			16	19	000AE		BLSS	10\$		
		21	50	E8	000B0		BLBS	FOUND, 11\$		
			04	AE	9F	000B3	PUSHAB	0CD	0227	
				67	DD	000B6	PUSHL	(R7)		
				52	DD	000B8	PUSHL	SCOPE		
	0000G	CF	03	FB	000BA		CALLS	#3, FIND OCD		
		E9	50	E8	000BF		BLBS	FOUND, 9\$		
			52	D7	000C2		DECL	SCOPE	0229	
			E5	11	000C4		BRB	9\$	0227	
		50	OB	E8	000C6	10\$:	BLBS	FOUND, 11\$	0230	
			AE	DO	000C9		MOVL	#360545, MESSAGE_VECTOR	0233	
		54	AE	D4	000D1		CLRL	MESSAGE_VECTOR+4	0234	
		50	AE	D5	000D4	11\$:	TSTL	MESSAGE_VECTOR	0240	
			15	13	000D7		BEQL	13\$		
		50	AE	9F	000D9		PUSHAB	MESSAGE_VECTOR	0243	
			56	DD	000DC		PUSHL	R6		
		68	02	FB	000DE		CALLS	#2, FORMAT MESSAGE		
			50	AE	9F	000E1	PUSHAB	MESSAGE_VECTOR	0244	
				56	DD	000E4	PUSHL	R6		
	0000G	CF	02	FB	000E6		CALLS	#2, SEND_REPLY		
			010D	31	000EB	12\$:	BRW	19\$	0245	
		52	04	AE	DO	000EE	13\$:	MOVL	OCD, R2	0253
		24	A6	DO	000F2		MOVL	R2, 36(R6)		
		53	A6	A2	90	000F6	MOVB	11(R2), 83(R6)	0254	
				6A	B5	000FB	TSTW	LCL_NODENAME	0255	
				26	13	000FD	BEQL	14\$		
		7E	01	7D	000FF		MOVQ	#1, -(SP)	0258	
			AE	9F	00102		PUSHAB	ON_DSC		
			14	AE	9F	00105	PUSHAB	ON_DSC		
				8F	DD	00108	PUSHL	#361131		
	00000000G	00	05	FB	0010E		CALLS	#5, SYSS\$GETMSG		
		59	50	DO	00115		MOVL	R0, STATUS		
		0D	59	E8	00118		BLBS	STATUS, 15\$		
			59	DD	0011B		PUSHL	STATUS	0260	
	00000000G	00	01	FB	0011D		CALLS	#1, LIB\$STOP		
				04	00124		RET			

		08	AE	D4	00125	14\$:	CLRL	ON DSC	0263
	53	3C	A6	9E	00128	15\$:	MOVAB	60(R6), R3	0273
		2E	A6	B5	0012C		TSTW	46(R6)	0264
			41	13	0012F		BEQL	16\$	
		0000G	CF	DD	00131		PUSHL	REQUEST NUMBER	0267
0000G	CF		01	FB	00135		CALLS	#1, CLUSUTIL INCR SEQUENCE	
0000G	CF		50	D0	0013A		MOVL	R0, REQUEST NUMBER	
70	A6	0000G	CF	D0	0013F		MOVL	REQUEST NUMBER, 112(R6)	0268
50	AE	000580AB	8F	D0	00145		MOVL	#360619, MESSAGE_VECTOR	0269
		54	AE	D4	0014D		CLRL	MESSAGE_VECTOR+4	0270
58	AE	70	A6	D0	00150		MOVL	112(R6), MESSAGE_VECTOR+8	0271
5C	AE	74	A6	3C	00155		MOVZWL	116(R6), MESSAGE_VECTOR+12	0272
60	AE		53	D0	0015A		MOVL	R3, MESSAGE_VECTOR+16	0273
64	AE	08	AE	9E	0015E		MOVAB	ON DSC, MESSAGE_VECTOR+20	0274
68	AE		6A	3C	00163		MOVZWL	LCL_NODENAME, MESSAGE_VECTOR+24	0275
6C	AE	04	AA	D0	00167		MOVL	LCL_NODENAME+4, MESSAGE_VECTOR+28	0276
70	AE		58	D0	0016C		MOVL	R8, MESSAGE_VECTOR+32	0277
			26	11	00170		BRB	17\$	0264
50	AE	000580B3	8F	D0	00172	16\$:	MOVL	#360627, MESSAGE_VECTOR	0281
		54	AE	D4	0017A		CLRL	MESSAGE_VECTOR+4	0282
58	AE	74	A6	3C	0017D		MOVZWL	116(R6), MESSAGE_VECTOR+8	0283
5C	AE		53	D0	00182		MOVL	R3, MESSAGE_VECTOR+12	0284
60	AE	08	AE	9E	00186		MOVAB	ON DSC, MESSAGE_VECTOR+16	0285
64	AE		6A	3C	0018B		MOVZWL	LCL_NODENAME, MESSAGE_VECTOR+20	0286
68	AE	04	AA	D0	0018F		MOVL	LCL_NODENAME+4, MESSAGE_VECTOR+24	0287
6C	AE		58	D0	00194		MOVL	R8, MESSAGE_VECTOR+28	0288
		50	AE	9F	00198	17\$:	PUSHAB	MESSAGE_VECTOR	0290
			56	DD	0019B		PUSHL	R6	
	6B		02	FB	0019D		CALLS	#2, FORMAT_MESSAGE	
			56	DD	001A0		PUSHL	R6	0291
0000G	CF		01	FB	001A2		CALLS	#1, NOTIFY_LISTED_OPERATORS	
	2B		50	E9	001A7		BLBC	R0, 18\$	
			56	DD	001AA		PUSHL	R6	0299
			0E	DD	001AC		PUSHL	#14	
	7E		01	CE	001AE		MNEGL	#1, -(SP)	
0000G	CF		03	FB	001B1		CALLS	#3, CLUSMSG_RQCB_SEND	
			56	DD	001B6		PUSHL	R6	0304
0000G	CF		01	FB	001B8		CALLS	#1, LOG_MESSAGE	
		2E	A6	B5	001BD		TSTW	46(R6)	0305
			39	13	001C0		BEQL	19\$	
3C	B2		66	0E	001C2		INSQUE	(R6), @60(R2)	0308
	50	04	AE	D0	001C6		MOVL	OCB, R0	0309
		3A	A0	B6	001CA		INCW	58(R0)	
	50		6E	D0	001CD		MOVL	RQCB, R0	0310
54	A0		03	8A	001D0		BICB2	#3, 84(R0)	0311
			04	001D4			RET		0305
		2E	A6	B5	001D5	18\$:	TSTW	46(R6)	0324
			21	13	001D8		BEQL	19\$	
50	AE	00058061	8F	D0	001DA		MOVL	#360545, MESSAGE_VECTOR	0327
		54	AE	D4	001E2		CLRL	MESSAGE_VECTOR+4	0328
		50	AE	9F	001E5		PUSHAB	MESSAGE_VECTOR	0329
			56	DD	001E8		PUSHL	R6	
	6B		02	FB	001EA		CALLS	#2, FORMAT_MESSAGE	
			56	DD	001ED		PUSHL	R6	0330
0000G	CF		01	FB	001EF		CALLS	#1, SEND_REPLY	
			56	DD	001F4		PUSHL	R6	0331
0000G	CF		01	FB	001F6		CALLS	#1, LOG_MESSAGE	

OPCSOPCOMRQST
V04-000

J 13
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0000G CF

56 DD 001FB 198:
01 FB 001FD
04 00202

PUSHL R6
CALLS #1, DEALLOCATE_RQCB
RET

: 0333
:
: 0336

: Routine Size: 515 bytes, Routine Base: \$CODES + 0000

```
339 0337 1 GLOBAL ROUTINE REQUEST_CLM_HANDLER (BUFFER_DESC : $ref_bblock, CLM : $ref_bblock, LEN) : NOVALUE =
340 0338 1
341 0339 1 ++
342 0340 1 Functional description:
343 0341 1
344 0342 1 This routine is the handler for all REQUEST messages received by OPCOM from remote nodes.
345 0343 1
346 0344 1 Input:
347 0345 1
348 0346 1 BUFFER_DESC - pointer to message from remote node, including $SENDPR header
349 0347 1 CLM - pointer to CLMRQCB structure
350 0348 1 LEN - length of LEN
351 0349 1
352 0350 1 Implicit Input:
353 0351 1
354 0352 1 None.
355 0353 1
356 0354 1 Output:
357 0355 1
358 0356 1 None.
359 0357 1
360 0358 1 Implicit output:
361 0359 1
362 0360 1 Some accounting data will be updated
363 0361 1 to reflect the receipt of the message.
364 0362 1
365 0363 1 Side effects:
366 0364 1
367 0365 1 None.
368 0366 1
369 0367 1 Routine value:
370 0368 1
371 0369 1 None.
372 0370 1
373 0371 1 --
374 0372 1
375 0373 2 BEGIN ! Start of REQUEST_CLM_HANDLER
376 0374 2
377 0375 2 LOCAL
378 0376 2 RQCB : $ref_bblock, ! RQCB data structure
379 0377 2 OCD : $ref_bblock, ! OCD data structure
380 0378 2 MCB : $ref_bblock, ! MCB data structure
381 0379 2 MSG : $ref_bblock, ! Pointer to user request
382 0380 2 FOUND : LONG, ! Boolean
383 0381 2 SCOPE : LONG, ! Scope of request
384 0382 2 SCOPE_LIMIT : LONG, ! Loop control
385 0383 2 STATUS : LONG;
386 0384 2
387 0385 2
388 0386 2
389 0387 2 Check the version number of the message. If the message is from any other version,
390 0388 2 simply ignore it.
391 0389 2
392 0390 2 IF .CLM [CLM_B_DS_VERSION] NEQ CLMRQCB_K_DS_VERSION
393 0391 2 THEN
394 0392 2 RETURN DUMP_LOG_FILE (.BUFFER_DESC, %ASCII 'CLM_REQUEST mismatch');
395 0393 2
```

```
396 0394 2 Allocate an RQCB and convert the message RQCB into the new RQCB
397 0395
398 0396
399 0397 IF NOT CLUSMSG_CONV_CLM_RQCB (.CLM, RQCB)
400 0398 THEN
401 0399 RETURN DUMP_LOG_FILE (.BUFFER_DESC, ascid_INVALIDRQCB);
402 0400
403 0401 Find an OCD that can handle this request. The OCD is selected
404 0402 according to the SCOPE and UIC of the requestor. If the SCOPE
405 0403 is unspecified, then look for operator coverage starting in the
406 0404 least privileged scope and continuing to the most privileged.
407 0405 If no OCD is found, then dismiss the request.
408 0406
409 0407 IF (.RQCB [RQCB_B_SCOPE] EQL OPC$K_UNSPEC)
410 0408 THEN
411 0409 SCOPE_LIMIT = OPC$K_SYSTEM
412 0410 ELSE
413 0411 SCOPE_LIMIT = .RQCB [RQCB_B_SCOPE];
414 0412 FOUND = FALSE;
415 0413 SCOPE = .RQCB [RQCB_B_SCOPE];
416 0414 WHILE (.SCOPE GEQ .SCOPE_LIMIT) AND (NOT .FOUND) DO
417 0415 IF NOT (FOUND = FIND_OCD (.SCOPE, .RQCB [RQCB_L_UIC], OCD))
418 0416 THEN
419 0417 SCOPE = .SCOPE - 1;
420 0418 IF NOT .FOUND
421 0419 THEN
422 0420 BEGIN
423 0421 DEALLOCATE_RQCB (.RQCB);
424 0422 RETURN;
425 0423 END;
426 0424 RQCB [RQCB_L_OCD] = .OCD; ! Save OCD address
427 0425 RQCB [RQCB_B_SCOPE] = .OCD [OCD_B_SCOPE]; ! Set request scope
428 0426
429 0427 Tell the world about the request, first to the log file, then to the operators. We
430 0428 know that an operator was notified, otherwise the remote node would not have sent the
431 0429 message.
432 0430 LOG MESSAGE (.RQCB);
433 0431 NOTIFY_LISTED_OPERATORS (.RQCB);
434 0432
435 0433 At least one operator was notified of the request. If the request expects a reply,
436 0434 then queue the RQCB onto the OCD for future reference.
437 0435
438 0436 IF .RQCB [RQCB_W_REPLYMBX] NEQ 0
439 0437 THEN
440 0438 BEGIN
441 0439 INSQUE (.RQCB, .OCD [OCD_L_RQSTFLINK]);
442 0440 OCD [OCD_W_RQSTCOUNT] = .OCD [OCD_W_RQSTCOUNT] + 1;
443 0441 $bblock [RQCB [RQCB_L_OPTIONS], OPC$V_NOBRD] = 0; ! Clear option bits
444 0442 $bblock [RQCB [RQCB_L_OPTIONS], OPC$V_NOLOG] = 0;
445 0443 END
446 0444 ELSE
447 0445 DEALLOCATE_RQCB (.RQCB); ! Deallocate the RQCB
448 0446
449 0447 END; ! End of REQUEST_CLM_HANDLER
```


69	6D	20	54	53	45	55	51	45	52	5F	5F	4D	4C	43	00000	P.AAB:	.ASCII	\CLM_REQUEST mismatch\<0><0><0>		
						00	00	00	68	63	74	61	6D	73	0000F	P.AAA:	.LONG	17694741		
													010E0015	00018	0001C		.ADDRESS	P.AAB		
																	.EXTRN	ASCID_INVALIDRQCB		
																	.PSECT	\$CODE\$,NOWRT,2		
																	.ENTRY	REQUEST_CLM_HANDLER, Save R2,R3,R4		0337
																	SUBL2	#8, SP		0390
																	MOVL	CLM, R2		
																	CMPB	2(R2), #2		
																	BEQL	1\$		
																	PUSHAB	P.AAA		0392
																	BRB	2\$		
																	PUSHR	#^M<R2,SP>		0396
																	CALLS	#2, CLUSMSG_CONV_CLM_RQCB		
																	BLBS	R0, 3\$		
																	PUSHAB	ASCID_INVALIDRQCB		0398
																	PUSHL	BUFFER_DESC		
																	CALLS	#2, DUMP_LOG_FILE		
																	RET			
																	MOVL	RQCB, R2		0406
																	CMPB	83(R2), #4		
																	BNEQ	4\$		
																	MOVL	#1, SCOPE_LIMIT		0408
																	BRB	5\$		
																	MOVZBL	83(R2), SCOPE_LIMIT		0410
																	CLRL	FOUND		0411
																	MOVZBL	83(R2), SCOPE		0412
																	CMPL	SCOPE, SCOPE_LIMIT		0413
																	BLSS	7\$		
																	BLBS	FOUND, 8\$		
																	PUSHAB	OCD		0414
																	PUSHL	104(R2)		
																	PUSHL	SCOPE		
																	CALLS	#3, FIND OCD		
																	BLBS	FOUND, 6\$		
																	DECL	SCOPE		0416
																	BRB	6\$		0414
																	BLBC	FOUND, 9\$		0417
																	MOVL	OCD, R3		0423
																	MOVL	R3, 36(R2)		
																	MOVB	11(R3), 83(R2)		0424
																	PUSHL	R2		0430
																	CALLS	#1, LOG_MESSAGE		
																	PUSHL	R2		0431
																	CALLS	#1, NOTIFY_LISTED_OPERATORS		
																	TSTW	46(R2)		0436
																	BEQL	9\$		
																	INSQUE	(R2), @60(R3)		0439
																	MOVL	OCD, R0		0440
																	INCW	58(R0)		
																	MOVL	RQCB, R0		0441

OPCSOPCOMRST
V04-000

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54	A0	03	8A	00093	BICB2	#3, 84(R0)
			04	00097	RET	
		52	DD	00098	PUSHL	R2
0000G	CF	01	FB	0009A	CALLS	#1, DEALLOCATE_RQCB
			04	0009F	RET	

: 0442
: 0436
: 0445
: 0447

; Routine Size: 160 bytes, Routine Base: \$CODE\$ + 0203

OP
VO

```
451 0448 1 GLOBAL ROUTINE REQUEST_CLM_CHECK_HANDLER (BUFFER_DESC : $ref_bblock, CLM : $ref_bblock, LEN) : NOVALUE =
452 0449 1
453 0450 1
454 0451 1 ++
455 0452 1 Functional description:
456 0453 1 This routine is the handler for all CHECK_REQUEST messages received by OPCOM from remote nodes.
457 0454 1
458 0455 1
459 0456 1 Input:
460 0457 1
461 0458 1 BUFFER_DESC - pointer to message from remote node, including $SENDPR header
462 0459 1 CLM - pointer to CLMRQCB structure
463 0460 1 LEN - length of LEN
464 0461 1
465 0462 1 Implicit Input:
466 0463 1
467 0464 1 None.
468 0465 1
469 0466 1 Output:
470 0467 1
471 0468 1 None.
472 0469 1
473 0470 1 Implicit output:
474 0471 1
475 0472 1 Some accounting data will be updated
476 0473 1 to reflect the receipt of the message.
477 0474 1
478 0475 1 Side effects:
479 0476 1
480 0477 1 None.
481 0478 1
482 0479 1 Routine value:
483 0480 1
484 0481 1 None.
485 0482 1 --
486 0483 1
487 0484 2 BEGIN ! Start of REQUEST_CLM_CHECK_HANDLER
488 0485 2
489 0486 2 LOCAL
490 0487 2 RQST : $ref_bblock, ! RQCB data structure
491 0488 2 RQCB : $ref_bblock, ! RQCB data structure
492 0489 2 OCD : $ref_bblock, ! OCD data structure
493 0490 2 MCB : $ref_bblock, ! MCB data structure
494 0491 2 MSG : $ref_bblock, ! Pointer to user request
495 0492 2 RQST_COUNT : LONG, ! Count of requests
496 0493 2 FOUND : LONG, ! Boolean
497 0494 2 SCOPE : LONG, ! Scope of request
498 0495 2 SCOPE_LIMIT : LONG, ! Loop control
499 0496 2 STATUS : LONG;
500 0497 2
501 0498 2
502 0499 2 Check the version number of the message. If the message is from any other version,
503 0500 2 simply ignore it.
504 0501 2
505 0502 2 IF .CLM [CLM_B_DS_VERSION] NEQ CLMRQCB_K_DS_VERSION
506 0503 2 THEN
507 0504 2 RETURN DUMP_LOG_FILE (.BUFFER_DESC, &ASCII 'CLM_CHECK_REQUEST mismatch');
```



```
0505      Allocate an RQCB and convert the message RQCB into the new RQCB
0506
0507
0508      IF NOT CLUSMSG_CONV_CLM_RQCB (.CLM, RQCB)
0509      THEN
0510          RETURN DUMP_LOG_FILE (.BUFFER_DESC, ascid_INVALIDRQCB);
0511
0512      Find an OCD that can handle this request. The OCD is selected according to the SCOPE and UIC of the
0513      requestor. If the SCOPE is unspecified, then look for operator coverage starting in the least
0514      privileged scope and continuing to the most privileged. If no OCD is found, then dismiss the request.
0515
0516      IF (.RQCB [RQCB_B_SCOPE] EQL OPC&K_UNSPEC)
0517      THEN
0518          SCOPE_LIMIT = OPC&K_SYSTEM
0519      ELSE
0520          SCOPE_LIMIT = .RQCB [RQCB_B_SCOPE];
0521      FOUND = FALSE;
0522      SCOPE = .RQCB [RQCB_B_SCOPE];
0523      WHILE (.SCOPE GEQ .SCOPE_LIMIT) AND (NOT .FOUND) DO
0524          IF NOT (FOUND = FIND_OCD (.SCOPE, .RQCB [RQCB_L_UIC], OCD))
0525          THEN
0526              SCOPE = .SCOPE - 1;
0527      IF NOT .FOUND
0528      THEN
0529          BEGIN
0530              DEALLOCATE_RQCB (.RQCB);
0531              RETURN;
0532          END;
0533      RQCB [RQCB_L_OCD] = .OCD;          ! Save OCD address
0534      RQCB [RQCB_B_SCOPE] = .OCD [OCD_B_SCOPE];    ! Set request scope
0535
0536      Search through the requests queued to this OCD for the specified request. If it is already present,
0537      then free the RQCB and return.
0538
0539      RQST_COUNT = .OCD [OCD_W_RQSTCOUNT];    ! Get # of requests
0540      RQST = .OCD [OCD_L_RQSTFLINK];          ! Get first request address
0541      WHILE .RQST_COUNT GTR 0 DO
0542          BEGIN
0543              IF .RQCB [RQCB_L_RQSTNUM] NEQ .RQST [RQCB_L_RQSTNUM]
0544              THEN
0545                  BEGIN
0546                      RQST_COUNT = .RQST_COUNT - 1;    ! Decrement request count
0547                      RQST = .RQST [RQCB_L_FLINK];    ! Get address of next request RQCB
0548                  END
0549              ELSE
0550                  BEGIN
0551                      DEALLOCATE_RQCB (.RQCB);
0552                      RETURN;
0553                  END;
0554          END;
0555
0556      Tell the world about the request, first to the log file, then to the operators. We
0557      know that an operator was notified, otherwise the remote node would not have sent the
0558      message.
0559
0560      LOG MESSAGE (.RQCB);
0561      NOTIFY_LISTED_OPERATORS (.RQCB);
```

```
565      0562 2  Everything looks good, add it to the list
566      0563 2
567      0564 2
568      0565 2  INSQUE (.RQCB, .OCD [OCD_L_RQSTFLINK]);
569      0566 2  OCD [OCD_W_RQSTCOUNT] = .OCD [OCD_W_RQSTCOUNT] + 1;
570      0567 2
571      0568 1  END;                                     ! End of REQUEST_CLM_CHECK_HANDLER
```

```
55 51 45 52 5F 4B 43 45 48 43 5F 5F 4D 4C 43 00020 P.AAD: .PSECT $SPLITS,NOWRT,NOEXE,2
    00 68 63 74 61 6D 73 69 6D 20 54 53 45 0002F .ASCII \CLM__CHECK_REQUEST mismatch\<0>
                                010E001B, 0003C P.AAC: .LONG 17694747
                                00000000, 00040 .ADDRESS P.AAD
```

```
                                .PSECT $CODE$,NOWRT,2
                                003C 00000
                                5E      08 08 C2 00002
                                52      02 AC D0 00005
                                02      02 A2 91 00009
                                06      13 0000D
                                0000' CF 9F 0000F
                                10      11 00013
                                4004 8F BB 00015 1$:
                                0000G CF 02 FB 00019
                                0D      50 E8 0001E
                                0000G CF 9F 00021
                                04      AC DD 00025 2$:
                                0000G CF 02 FB 00028
                                04      04 0002D
                                53      6E D0 0002E 3$:
                                04      53 A3 91 00031
                                05      12 00035
                                54      01 D0 00037
                                04      11 0003A
                                54      53 A3 9A 0003C 4$:
                                50      D4 00040 5$:
                                52      53 A3 9A 00042
                                54      52 D1 00046 6$:
                                17      17 19 00049
                                50      E8 0004B
                                04      AE 9F 0004E
                                68      A3 DD 00051
                                52      DD 00054
                                0000G CF 03 FB 00056
                                E8      50 E8 0005B
                                52      D7 0005E
                                17      E4 11 00060
                                27      50 E9 00062 7$:
                                52      04 AE D0 00065 8$:
                                24      A3 52 D0 00069
                                53      A3 0B A2 90 0006D
                                003C 00000
                                .ENTRY REQUEST_CLM_CHECK_HANDLER, Save R2,R3,R4,R5 : 0448
                                SUBL2 #8, SP
                                MOVL CLM, R2
                                CMPB 2(R2), #2
                                BEQL 1$
                                PUSHAB P.AAC
                                BRB 2$
                                0504
                                0508
                                PUSHB #M<R2,SP>
                                CALLS #2, CLUSMSG_CONV_CLM_RQCB
                                BLBS R0, 3$
                                0510
                                PUSHAB ASCII INVALIDRQCB
                                PUSHB BUFFER_DESC
                                CALLS #2, DUMP_LOG_FILE
                                RET
                                MOVL RQCB, R3
                                CMPB 83(R3), #4
                                BNEQ 4$
                                MOVL #1, SCOPE_LIMIT
                                BRB 5$
                                0516
                                0518
                                MOVZBL 83(R3), SCOPE_LIMIT
                                CLRL FOUND
                                0520
                                0521
                                MOVZBL 83(R3), SCOPE
                                0522
                                CMPL SCOPE, SCOPE_LIMIT
                                0523
                                BLSS 7$
                                BLBS FOUND, 8$
                                0524
                                PUSHAB OCD
                                PUSHB 104(R3)
                                PUSHB SCOPE
                                CALLS #3, FIND_OCD
                                BLBS FOUND, 6$
                                DECL SCOPE
                                0526
                                BRB 6$
                                0524
                                BLBC FOUND, 10$
                                0527
                                MOVL OCD, R2
                                0533
                                MOVL R2, 36(R3)
                                MOVB 11(R2), 83(R3)
                                0534
```

OPCSOPCOMRQST
V04-000

E 14
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55	3A	A2	3C	00072	MOVZWL	58(R2), RQST_COUNT	: 0539		
54	3C	A2	D0	00076	MOVL	60(R2), RQST_COUNT	: 0540		
		55	D5	0007A	9\$: TSTL	RQST_COUNT	: 0541		
		16	15	0007C	BLEQ	11\$: 0543		
70	A4	70	A3	D1	0007E	CMPL	112(R3), 112(RQST)	: 0543	
			07	13	00083	BEQL	10\$: 0546	
			55	D7	00085	DECL	RQST_COUNT	: 0547	
			54	64	D0	00087	MOVL	(RQST), RQST	: 0543
			EE	11	0008A	BRB	9\$: 0551	
			53	DD	0008C	10\$: PUSHL	R3	: 0550	
0000G	CF		01	FB	0008E	CALLS	#1, DEALLOCATE_RQCB	: 0560	
				04	00093	RET		: 0561	
			53	DD	00094	11\$: PUSHL	R3	: 0565	
0000G	CF		01	FB	00096	CALLS	#1, LOG_MESSAGE	: 0566	
			53	DD	0009B	PUSHL	R3	: 0568	
0000G	CF		01	FB	0009D	CALLS	#1, NOTIFY_LISTED_OPERATORS	: 0568	
	3C		63	0E	000A2	INSQUE	(R3), @60(R2)	: 0568	
			50			MOVL	0C0, R0	: 0568	
		04	AE	D0	000A6	INCW	58(R0)	: 0568	
		3A	A0	B6	000AA	RET		: 0568	
				04	000AD			: 0568	

; Routine Size: 174 bytes, Routine Base: \$CODE\$ + 02A3

: 573 0569 1 END
: 574 0570 0 ELUDOM

! End of OPCOMRQST

PSECT SUMMARY

Name	Bytes	Attributes
\$CODES	849 NOVEC,NOWRT, RD , EXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)	
\$SPLITS	68 NOVEC,NOWRT, RD ,NOEXE,NOSHR, LCL, REL, CON,NOPI,ALIGN(2)	

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	13	0	1000	00:01.9
\$255\$DUA28:[OPCOM.OBJ]OPCOMLIB.L32;1	633	32	5	43	00:00.9

COMMAND QUALIFIERS

; BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:OPCOMRQST/OBJ=OBJ\$:OPCOMRQST MSRC\$:OPCOMRQST/UPDATE=(ENH\$:OPCOMRQST)

; Size: 849 code + 68 data bytes
; Run Time: 00:20.1
; Elapsed Time: 00:54.7
; Lines/CPU Min: 1703
; Lexemes/CPU-Min: 16488
; Memory Used: 183 pages
; Compilation Complete

0290 AH-BT13A-SE
VAX/VMS V4.0

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